This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Previously presented) An optical information storage unit comprising:

an information layer comprising a plurality of data areas, a first side wherein light

from a light source enters the information layer, and a second side separated from the first

side, wherein light emitted from the information layer is emitted from the second side, each

data area being arranged to emit light when illuminated by light at a predetermined

wavelength; and

a readout layer separated from the information layer so that the readout layer and

the information layer are not in contact with each other, the readout layer comprising a

plurality of optical apertures, wherein each of the plurality of optical apertures are separated

from each other of the plurality of optical apertures by an optically opaque portion, each

optical aperture being arranged to image substantially only the near field of light emitted

from a respective data area.

2. (Previously presented) The information storage unit as claimed in claim 1, wherein both

the readout layer and the information layer are planar and substantially parallel, the

separation between the information layer and the readout layer being less than the

wavelength of emitted light.

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3. (Previously presented) The information storage unit as claimed in claim 1, wherein the

information layer is movable within a plane substantially parallel to the readout layer.

4. (Previously presented) The information storage unit as claimed in claim 1, wherein said

information layer has a data areas per unit area, and said readout layer has b optical

apertures per unit area, where a>b.

5. (Previously presented) The information storage unit as claimed in claim 1, wherein

each data area comprises an optical aperture, the light emitted from each data area when

illuminated corresponding to light transmitted through the aperture.

6. (Previously presented) The information storage unit as claimed in claim 1, wherein

each data area comprises a reflector, the light emitted from each data area comprising light

reflected from the reflector when the respective data area is illuminated.

7. (Previously presented) The information storage unit as claimed in claim 1, wherein

each area comprises a fluorescent material, the light emitted from each data area

comprising the light emitted by the material as it fluoresces, the illuminating light acting to

excite the fluorescent material.

8. (Previously presented) The information storage unit as claimed in claim 1, wherein an

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optically transmissive material is placed between the information layer and the readout layer, the optically transmissive material having a refractive index greater than 1 at the

wavelength of the emitted light.

9. (Previously presented) The optical information storage unit as claimed in claim 1,

wherein at least one of said data areas is modifiable by a predetermined process so as to

alter the optical characteristics of the data area such that the intensity of light emitted by the

data area when illuminated will be altered.

10. (Previously presented) The information storage unit as claimed in claim 1, the unit

further comprising:

a light source arranged to provide light at the predetermined wavelength for

illumination of the data areas; and

an optical sensor comprising a plurality of light sensing areas, the optical sensor

being arranged to detect the near field of light imaged by each respective optical aperture.

11. (Previously presented)A reader for an optical information storage unit, the reader being

arranged to removably receive an optical information storage unit as claimed in claim 1, the

reader comprising:

a light source arranged to provide light at the predetermined wavelength for

illumination of the data areas: and

an optical sensor comprising a plurality of light sensing areas, the optical sensor

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being arranged to detect the near field of light imaged by a respective optical aperture of the optical information storage unit.

- 12. (Previously presented) The reader as claimed in claim 11, further comprising writing means arranged to controllably alter the optical properties of the data areas, so as to write data to the data areas.
- 13. (Previously presented) The reader as claimed in claim 11, further comprising movement means arranged to move the position of the information layer relative to the position of both the readout layer and the optical sensor.
- 14. (Previously presented)An information processing system comprising at least one of: an optical information storage unit as claimed in claim 10.
- 15. (Previously presented)A method of reading information from an optical information storage unit, the information storage unit comprising:

an information layer comprising a plurality of data areas, a first side wherein light from a light source enters the information layer, and a second side separated from the first side, wherein light emitted from the information layer is emitted from the second side, each data area being arranged to emit light when illuminated by the light at a predetermined wavelength; and

a readout layer comprising a plurality of optical apertures, wherein each of the

plurality of optical apertures are separated from each other of the plurality of optical apertures by an optically opaque portion, each optical aperture being arranged to image substantially only the near field of light emitted from a respective data area,

wherein the method comprises acts of:

illuminating at least one data area with light at the predetermined wavelength; and detecting the optical intensity of light imaged by the respective optical aperture that corresponds to the illuminated data area, wherein the act of illuminating comprises an act of positioning the light such that the light does not pass through the aperture prior to illuminating the data area.

16. (Previously presented) The method of reading information from an optical information storage unit as claimed in claim 15, the method further comprising an act of:

moving the information layer within a plane substantially parallel to the readout layer, such that an optical aperture previously imaging a first data area images a second, different data area within the information layer.

17. (Previously presented)A method of manufacturing an optical information storage unit, the method comprising acts of:

providing an information layer comprising a plurality of data areas, a first side wherein light from a light source enters the information layer, and a second side separated from the first side, wherein light emitted from the information layer is emitted from the second side, each data area being arranged to emit light when illuminated by light at a

predetermined wavelength; and

providing a readout layer separated from the information layer so that the readout layer and the information layer are not in contact with each other, the readout layer comprising a plurality of optical apertures, wherein each of the plurality of optical apertures are separated from each other of the plurality of optical apertures by an optically opaque portion, the readout laver being located at a distance from the information layer such that each optical aperture is arranged to image substantially only the near field of light emitted from a respective data area.

18. (Previously presented)A method of writing data to an optical information storage unit, the information storage unit comprising an information layer comprising a plurality of data areas, a first side wherein light from a light source enters the information layer, and a second side separated from the first side, wherein light emitted from the information laver is emitted from the second side, each data area being modifiable so as to emit light when illuminated by light of a predetermined wavelength, and a readout layer comprising a plurality of optical apertures, wherein each of the plurality of optical apertures are separated from each other of the plurality of optical apertures by an optically opaque portion, each optical aperture being arranged to image substantially only the near field light emitted from the respective data area; the method comprising acts of:

selectively modifying at least one data area so as to emit light at a predetermined intensity when illuminated, the predetermined intensity being indicative of the information stored by the respective data area, wherein the act of selectively modifying comprises an act of positioning an illuminating light source such that light from the light source does not pass through the plurality of optical apertures prior to illuminating the data areas.

19. (Previously presented)A method of manufacturing a reader for an optical information storage unit, the method comprising acts of:

providing a locator unit arranged to removably receive an optical information storage unit as claimed in claim 1;

providing a light source arranged to provide light at the predetermined wavelength for illumination of the data areas of the storage unit; and

providing an optical sensor comprising a plurality of light sensing areas, the optical sensor being arranged to detect the near field of light imaged by each respective optical aperture of the storage unit, wherein the act of providing the comprises an act of arranging the optical sensor on a different side of the information storage unit than a side where light from the light source enters the information storage unit.